

Claims

1. A child resistant carton package, the package comprising an outer sleeve (2) of fiber-based material, an insert (3) that can be slidably drawn out of the sleeve, the insert carrying the packaged product, and a locking mechanism (7, 9) between the sleeve and the insert, for preventing a child from drawing the insert out of the sleeve, characterized in that the outer sleeve (2) is made of board reinforced with extrusion coated polymer to increase its resistance to tearing.
2. A carton package according to claim 1, characterized in that the board has a coating layer of a tough polymer selected from the group consisting of polyester, polyamide, polypropene and polycarbonate.
3. A carton package according to claim 2, characterized in that the coating polymer is polyethylene terephthalate (PET).
4. A carton package according to claim 2 or 3, characterized in that the board on both sides thereof is provided with a coating layer of a tough polymer.
5. A carton package according to any one of the preceding claims, characterized in that the coating comprises an inner reinforcement layer of a tough polymer and an outer heat seal polymer layer.
6. A carton package according to any one of the preceding claims, characterized in that the insert (3) is made of the same polymer extrusion coated board as the outer sleeve (2).
7. A carton package according to any one of the preceding claims, characterized in that the cutting edges at least on the outside of the outer sleeve (2) are provided with polymer shield against delamination of the board.
8. A carton package according to any one of the preceding claims, characterized in that the board is delaminable along a fiber-based material layer in case of failure of a cutting edge.
9. A carton package according to any one of the preceding claims, characterized in that the sleeve (2) comprises four longitudinal side walls (2a, 2b, 2c, 2d) parallel to the sliding direction (S) of the insert (3) and an open end (4) to let the insert be

drawn out of the sleeve, and that the locking mechanism comprises a first stop tab (7a) in the sleeve, the first stop tab extending from a first (2c) to a second (2a) of the longitudinal walls and being at least partly separated from the first longitudinal wall and the second longitudinal wall, and a first locking edge (9a) provided in the insert, the insert being prevented, upon contact of the first locking edge with the first stop tab, from moving out of the sleeve, while the first locking edge can, through elastic deforming of a part of the insert by a user, be moved so that its movement past the first stop tab is made possible.

10. A carton package according to any one of the preceding claims, characterized in that the outer sleeve (2) has one or more holes (10) permitting release of the locking (7, 9) by the user's finger.

11. A carton package according to any one of the preceding claims, characterized in that the outer sleeve (2) has been made by folding a blank (2') of the polymer extrusion coated board and seaming overlapping parts (17, 18) of the folded blank together by heat sealing the coating polymer of the board, the seams on the outside of the sleeve having the edge of the outer board part (17) protected by polymeric shielding against delamination of the coated board.

12. A carton package according to claim 11, characterized in that an edge portion (15) of the outer board part (17) is skived from its inside and turned twofold, the polymer coating (13, 14) of the folded portion forming the delamination shield and at least part of the heat seal (19) between the overlapping inner and outer board parts (17, 18) at the seam.

13. Use of polymer extrusion coated board (11) for a child resistant carton package for a pharmaceutical or like dangerous product, the package comprising an outer sleeve (2), a slidable insert (3) and a locking mechanism (7, 9) between the outer sleeve and the insert.

14. Use of polyethylene terephthalate (PET) coated board (11) in accordance with claim 13.

15. Use of polymer extrusion coated board having an inner layer of a tough polymer selected from the group consisting of polyester, polyamide, polypropene and polycarbonate and an outer heat seal layer of polyolefine, for a child resistant carton package in accordance with claim 13.

16. Use of polymer extrusion coated board (11) in accordance with any one of claims 13 - 15 for the outer sleeve (2), the slidable insert (3) and the locking mechanism parts (7, 9) of the carton package.